tested. The resins filled with channel black were the least stable to prolonged aging at either temperature. The combination of 2 different blacks (furnace, lamp or thermal) improved the resistance of the resins to thermal aging at 85 and 1000 as indicated by higher tensile strength and elongation; these values were much lower when the temperature was increased to 1100. There seemed to be no correlation between the amount of volatiles at the different temperatures and the mechanical properties of the resin. Examination of the effect of a combination of channel black, mercaptobenzthiazole and thiuram on the physical mechanical properties of insulating type resins showed that addition of 5-10 wt. parts of channel black and 3 wt. parts of Captax increased the strength of the vulcanizates (from 47-67 kgs/cm²) without changing their electrical insulating properties. Orig. art. has: 1 figure and 4 tables.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F. E. Dzerzhinskogo Kafedra tekhnologii reziny* (Dnepropetrovsk Chemical Technological Institute Department of Rubber Technology)

SUBMITTED: 16Mar63

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Card 2/3

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GREBENNIKOV, D.A., gornyy inzh.; ZYKOV, V.A.; GUSHCHIN, V.V.;

DEMIDENKO, I.F.; RODIONOV, G.V., prof., doktor tekhn.nauk

Discussion of IA. B. Kal'nitskii and S.P. Vasil'evskii's article "Problems in the automation of stoping equipment in the mining industry." Gor. zhur. no.10:59-64 0 '61. (MIRA 15:2)

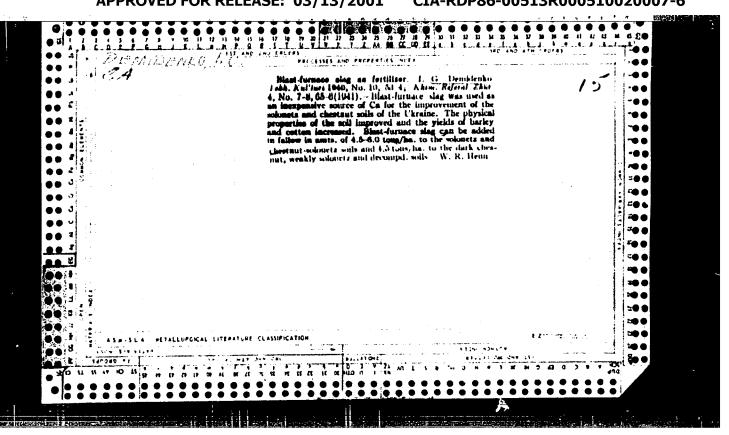
1. Glavnyy mekhanik kombinata "Apatit" (for Zykov). 2. Glavnyy inzh. kombinata "Apatit" (for Gushchin). 3. Upravlyayushchiy rudnikom Odra-Bash Kuznetskogo metallurgicheskogo kombinata (for Demidenko). 4. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Rodioncy).

(Mining machinery)

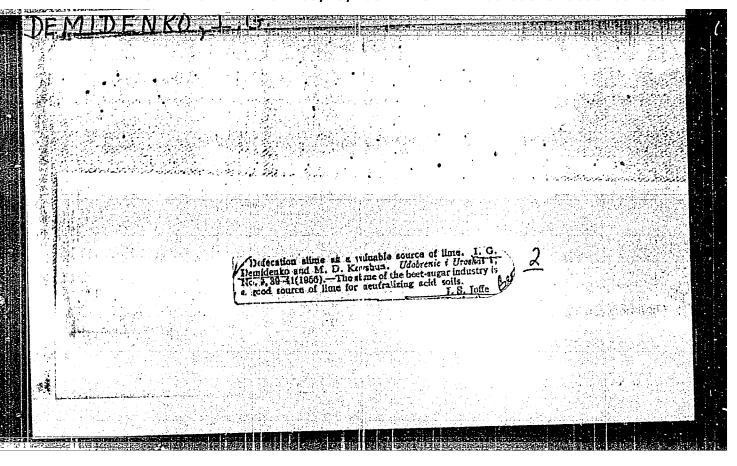
KOLOBENIN, V.N.; UTLENKO, Ye.V.; DEMIDENKO, I.A.; BLOKH, G.A.

Use of carbons blacks in pable rubbers. Izv.vys.ucheb.zav.; khim. 1 khim.tekh. 7 no.2:307-312 *64. (MIRA 18:4)

l. Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F.E. Dzerzhinskogo, kafedra tekhnologii reziny.



"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000510020007-6



 产品的工作的现在分词是不是有效的工作的。
 产品的工作的工作的工作。
 产品的工作的工作。 USSR : Soil Science. Mineral Fertilizers. Country Caregory 53405 Abs. Jour. : : Kondratenko, Ye.S.; Demidenko, I.t. Author : The Results of Production Trials or Liquid Nitro-Institut. gen Fertilizers in the Ukraine Titlo Orig. Pub.: Udobreniye i urozhay, 1957, No.6, 16-23 : Experiments conducted in 1956 at the kolkhozes and sovkhozes of Dnepropetrovskaya and Cherkas-Abstract skaya Oblasts on chernozem soils, and on turf-podzolic soil in Kiyevskaya Oblast' have shown that liquid ammonia (82% N) and ammoniate B (28-32% N) obtained by dissolving ammonium nitrate and calcium nitrate in ammonia water, were not less effective than ammonium nitrate in producing various agricultural crops. Records on the economic efficiency of the fertilizers on sugar beets indicate a difference of 419 rubles 1/2 Card:

DEMIDENKO, I.G. [Demydenko, I.H.]; MINEVICH, S.M. [Minevych, S.M.], otv.
red.; FAL'KO, Yu.G. [Fal'ko, Yu.H.], red.; MATVIICHUK, O.A.,
tekhn. red.

[Recent developments in the production and use of fertilizers]
Nows u vyhotovlenii i zastosuvanni dobryv. Kit, 1961. (Tovarystvo
dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.5,
no.6)

(Fortilizers and manures)

DEMIDENCO, I.G.; PROKOPENCO, I.I.

Using liquid ammonia fertilizers in the Ukraine. Zemledelie 23 no.1:54-59 Ja *61. (MIRA 13:12)

1. Ministerstvo sel'skogo khozyaystva USSR (for Demidenko).
2. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Prokopenko). (Ammonia)

POLISHVAYKO, I.Z.; DEMIDENIO, I.G.

Practices of collective farms in the use of fertilizers. Zemledelie 27 no.11:55-58 N '65. (MIRA 18:10)

1. Nachal'nik Upravleniya khimizatsii Ministerstva sel'skogo khozyaystva UkrSSR (for Polishvayko). 2. Glavnyy agronom Upravleniya khimizatsii Ministerstva sel'skogo khozyaystva UkrSSR (for Demidenko).

ACC NRI AP6001973

(A,N)

SOURCE CODE: UR/0349/65/000/011/0055/0058

AUTHOR: Polishvayko, I. Z. (Chief); Demidenko, I. G. (Chief agriculturist)

ORG: Applied Chemistry Board MSKh UKrSSR (Upravleniya khimisatsii MSKh UKrSSR)

TITIE: Experience of kolkhozes with fertilizers

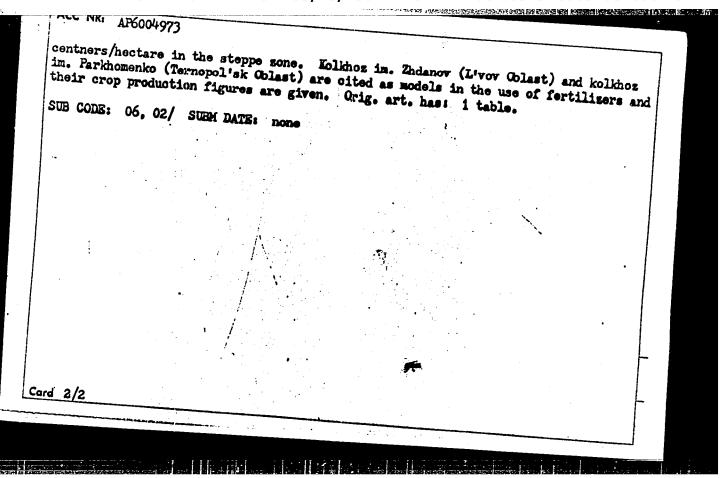
SOURCE: Zemledeliye, no. 11, 1965, 55-58

TOPIC TAGS: fertilizer, agriculture crop

ABSTRACT: Ukraine SSR, which has considerable peat resources, plans to increase its yearly production of organic fertilizers to 180 to 200 million tons. In 1965 the kolkhozes and sovkhozes of the Ukraine received 5.5 million tons of mineral fertilizers representing an increase of 800,000 tons over the previous year. In Ukraine's forest zone grain, industrial and other crops are grown. In the forest steppe zone sugar beet, hemp, and vegetable crops are grown in addition to grain. In the steppe zone, where the precipitation is much less than in the forest and forest steppe zones, winter wheat, sunflower, corn and melon crops are grown. The greater part of the mineral and organic fertilizers is introduced during fall plowing. All crop yields have increased with the use of fertilizers. With the application of N40P40K40, winter wheat crop production has increased by 4 to 6 centners/hectare in the forest zone, by 3 to 5 centners/hectare in the forest steppe zone, and by 4

Card 1/2

UDC: 631.8



9,4177 (1035,1138)

32527 \$/051/61/011/006/008/012 E039/E385

AUTHORS:

Borisov, M.D. (Deceased), Demidenko, I.I. and

Padalka, V.G.

TITLE:

The absolute concentration of electrons in the forbidden zone from the transmission boundary of thin films of aluminium in the vacuum ultraviolet region

PERIODICAL:

Optika i spektroskopiya, v.11, no.6, 1961, 769-771

TEXT: Previous studies of the optical properties of metals have been mainly in the infrared, visible and ultraviolet regions. It has been shown that films of alkali metals, opaque to visible light, were transparent in the ultraviolet region. The transmission boundary shifts to shorter wavelengths with a reduction in atomic weight: Cb - 4400 1, Rb - 3600 1, K - 3150 1, Na - 2100 A, Li - 2050 X. For wavelengths shorter than the appropriate transmission boundary the alkali metals acquire the properties of a transparent medium. In the present work the transmission boundary for thin films of aluminium is determined and the concentration of electrons in the forbidden zone calculated. The radiation source is described in detail and consists Card. 1/4

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32527 \$/051/61/011/006/008/012 E039/E385

The absolute concentration

essentially of a high-frequency discharge between aluminium electrodes enclosed in a quartz capillary tube. The power supply is a 3.1 microfarad condenser charged to \sim 10 kV. The maximum current on the first oscillation is ~ 100 kA, producing a current density of ~ 20 kA/nm². The method of producing the aluminium films is described fully. Aluminium is evaporated from a tungsten filament onto a glass plate previously coated with a thin layer of sodium chloride. By dissolving this sodium chloride layer the aluminium film can be removed easily from the plate. The thickness of the film was measured interferometrically and shown to be $\sim 1\,000\,$ Å. In visible light such films were completely opaque. Transmission spectra of these films were obtained in the region 200 - 2 000 Å and it was shown that for wavelengths longer than ~800 Å the films were opaque, while for wavelengths shorter than ~ 800 Å they were transparent. It has been shown that when the frequency of the light $\,\omega\,$ is greater than the plasma frequency Ω , the electron plasma in metals is capable of sustaining electromagnetic waves and hence it will be Card 2/4

32527 \$/051/61/011/006/008/012 E039/E385

The absolute concentration

optically transparent. If $\omega < \Omega$ the metal is opaque. The concentration of electrons in the forbidden zone $\,N\,$ is related to the transmission boundary $\,\lambda_{_{\mbox{\scriptsize O}}}\,\,$ by the expression:

$$N = \frac{\pi c^2 m^*}{e^2 \lambda_0^2} \tag{2}$$

where m and e are the effective mass and the charge of the Assuming $m^{\leftarrow} = m = 9.1 \times 10^{-28} \text{ g, for } \lambda_0 = 800 \text{ Å, then}$ $N = 1.74 \times 10^{23} \text{cm}^{-3}$. A value for N obtained by G.P. Motulevich and associates (Ref. 7: ZhETF, 38, 51, 1960) in the infrared region of the spectrum is less than half the above value. There are 1 figure and 7 references: 2 Soviet-bloc and 5 non-Soviet-bloc. The four latest English-language references mentioned are: Ref. 2: R.W. Wood, C. Lukens, Phys. Rev., 54, 332, 1938; Ref. 3: G. Sabine, Phys. Rev., Card 3/4

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S/051/61/011/006/003/012
The absolute concentration E039/E385

55, 1064, 1939; Ref. 4: W.S. Walker, O.P. Rustgi, G.L.Weissler J. Opt. Soc. Amer., 49, 471, 1959, Ref. 6: D. Bohm, D. Pines Phys. Rev., 82, 625, 1951; 85, 338, 1952; 92, 609, 1953

SUBMITTED: April 27, 1961

Card 4/4

DEMIDENKO, I.I. [Demydenko, I.I.]; MITINA, N.I.; PADALKA, V.G. [Padalka, V.H.]

Use of thermocouples in studying plasma clots. Ukr. fiz. zhur. 8
no.1:61-64 Ja '63. (MIRA 16:5)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

(Plasma (Ionized gases)) (Thermocouples)

s/2781/63/000/003/0228/0231

AUTHORS: Demidenko, I. I.; Mitina, N. I.; Padalka, V. G. THE REAL PROPERTY AND PERSONS ASSESSED.

TITLE: Investigation of plasmoids with the aid of thermocouples

SOURCE: Konferentsiya po fizike plazmy* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy* i problemy* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady* konferentsii, no. 3, Kiev, Izd-vo AN UkrSSR, 1963, 228-231

TOPIC TAGS: plasma source, plasmoid, plasmoid acceleration, plasma temperature, plasma magnetic field interaction, thermocouple

ABSTRACT: The preparation of a bismuth-silver thermocouple for. plasma research is described. The thermocouples were produced freestanding by evaporation in vacuum on a heated glass substrate and were used to investigate plasmoids from a Bostick source. The method

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of separating the thermocouple from the substrate is described. The relative distribution of the energy of the plasmoids as a function of the distance from the source was measured with the thermocouples. The motion of the plasmoid past the thermocouple charged the latter cilloscope. The passage of plasmoids in a longitudinal magnetic field (the field intensity approximately 0.06 Tesla) was also incould be determined from the delay in the thermocouple signal, and authors to be an overestimate. It is concluded that the described tigate the diffusion of plasma transverse to a magnetic field.

ASSOCIATION: None

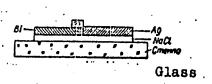
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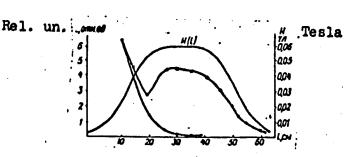
ACCESSION NR: AT4036064

SUBMITTED: 00 DATE ACQ; 21May64 ENCL: 01

SUB CODE: ME NR REF SOV: 002 OTHER: 001

ENCLOSURE: 01





Left - deposition of thermocouple on glass substrate (the melting of the salt causes the thermocouple to separate from the glass)

Right - relative distribution of plasmoid energy as a function of the distance from the source. H(L) - magnetic field distribution, crosses - in presence of magnetic field, dots - without field.

Card 4/4

8/2781/63/000/008/0232/0236

AUTHORS: Sincl'nikov, K. D.; Safronov, B. G.; Padalka, V. G.; Demi-

TITLE: Visual study of plasmoids

SOURCE: Konferentsiya po fizike plazmy* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy* i problemy* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady* konferentsii, no. 3, Kiev, Izd-vo AN Ukrssk, 1963, 232-236

TOPIC TAGS: plasmoid, plasmoid acceleration, toroidal drift instability, plasma research, plasma magnetic field interaction, plasma diffusion

ABSTRACT: Apparatus is described for visual observation of the shape of a plasmoid moving in electric and magnetic fields. The apparatus

described can be used successfully even for plasmoids with relatively low ion concentration (108-109 cm⁻³) which are difficult to investigate by their waves (for example, high speed photography and spectroscopy). The instrument (called "plasmoscope" by A. V. Zharinov) is based on accelerating the plasma electrons between grids and causing them to induce glow of a luminor on a flat glass. techniques required for the preparation of the plasmoscopes are described. The apparatus was used to investigate the entry and passage of a plasmoid in a longitudinal homogeneous magnetic field and in a field of toroidal configuration, using a source of the Bostick type and a discharge from 1 microfarad capacitor at 4 kv. The plasmoid velocity was (7--8) x 104 m/sec. The broadening of the plasmoid in the homogeneous-field region may be due to differences in the angle at which the plasmoid enters the gradient field near the solenoid. In the case of toroidal configuration, it is assumed that the magnetic field compensates for the plasma polarization. The length of the toroidal part of the field must not exceed Card 2/4

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the length of the plasmoid for such a model, and as the plasma moves along the helical solenoid the plasmoid passes through it only so long as its length exceeds the length of the helix. Otherwise a strong drift of the plasmoid is observed and the plasma does not get through. An experiment was performed to ascertain the effect to which the toroidal configuration can clear the plasmoid of the "tail" of heavy ions. The results indicate the feasibility of such a cleaning method. Orig. art. has: 6 figures.

ASSOCIATION: None

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DATE ACQ: 21May64

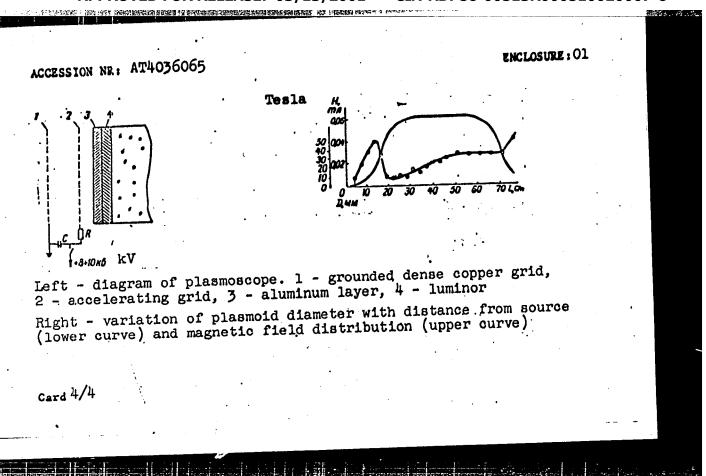
ENCL: 01

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NR REF SOV: 001

OTHER: 001

Card 3/4



SINEL'NIKOV, K.D.; SAFRONOV, B.G.; PADALKA, V.G.; DEMIDENKO, I.I.

Visual study of plasma clots. Zhur. tekh. fiz. 33 no.9:
1055-1058 S '63.

(MIRA 16:11)

ACCESSION NR: AP4041992 8/0057/64/034/007/1183/1190

AUTHOR: Demidenko, I.I.; Padalka, V.G.; Safronov, B.G.; Sinel'nikov, K.D.

TITLE: Interaction of plasma bursts with a transverse magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.7, 1964, 1183-1190

TOPIC TAGS: plasma, plasma-magnetic field interaction, plasmoid, plasma source

ABSTRACT: The behavior of plasma bursts on meeting a transverse magnetic field was investigated experimentally. The plasma bursts were produced by 15-kv discharges of a 3-microfarad capacitor bank through a conical plasma gun with plastic walls, and traveled at 2.3 x 10⁶ cm/sec down an 8-cm-diameter copper drift tube. At 70 cm from the plasma gun the drift tube intersected, at right angles, a second copper tube 10 cm in diameter, in which an approximately uniform axial magnetic field of a strength up to 725 oe was maintained with a solenoid. The behavior of the plasmas trength up to 725 oe was maintained with a solenoid. The behavior of the plasmas was observed with magnetic probes, a shielded electric probe, and a "plasmascope" (a fluorescent screen which is photographed when the plasma impinges upon it). Mass spectroscopic analyses of the plasmas were also performed. When a plasma burst entered the transverse magnetic field, a portion of it passed through the field in

Card 1/3

the original direction with reduced velocity, and a portion of it was "captured" by the field and traveled down the side tube in both directions along the lines of force. The captured plasma moved virtually parallel to the lines of force (the shadow image of a grid of 8-mm-diameter holes on 8-mm centers was quite sharp at 30 cm and it traveled with a considerably greater velocity than the original plasma burst. The velocity of the captured plasma increased with increasing magnetic field, and amounted to 6.3 x 106 cm/sec in a field of 45000. The portion of the plasma traversing the magnetic field suffered a displacement perpendicular both to the field and to the direction of motion. It is suggested that this displacement is due to drift resulting from a longitudinal polarization of the plasma. The plasma consisted chiefly of H^+ , C^+ , O^+ , Fe^+ , C^{2+} , O^{2+} , and O^{3+} . Most of the heavy ions traversed the transverse field, and only H+ and C+ were found in the captured portion. The mechanism of the capture and acceleration of the plasma by the transverse magnetic field is discussed very briefly; it is not understood. The authors assert that a pure hydrogen plasma is much more easily captured by a transverse magnetic field than the impure plasmas investigated in the present work, and they call for further investigation of the role of the heavy ions in this process. Orig.art.has: 10 figures and 2 tables.

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ACCESSION NR; AP4041992
ASSOCIATION: none
SUBMITTED: 22Jul63 ATD PRESS: 3081 ENCL: 00
SUB CODE: ME NR REF SOV: 003 OTHER:002

ENT(1)/ENG(k)/ENT(m)/EPA(sp)-2/EPF(c)/EPA(w)-2/EEC(t)/T/EEC(b)-2/ MP(q)/EMP(b)/EMA(m)-2 Pf-4/Pi-4/Po-4/Pr-4/Pz-6/Pab-24 IJP(c)/AEDC(b)/ASD(p)-3 RAIM(a)/SSD/AFWL/AFETR/ESD(gs)/ESD(t) AT/JD/HM 8/0020/64/157/006/1335/133 ACCESSION MR: AP4044877 AUTHORS: Demidenko, I. I.; Padalka, V. G.; Safronov, B. G.; Sine, nikov, K. D. (Academician AN Ukrssk) Energy spectra of a plasma interaction with a transverse TITLE: magnetic field SOURCE: AN SSSR. Doklady*, v. 157, no. 6, 1964, 1335-1337 TOPIC TAGS: plasma source, plasma magnetic field, plasma trapping, plasma charged particle distribution, plasma axial inhomogeneity, plasmoid ionic component ABSTRACT: This is a continuation of earlier tests by the authors (ZhTF v. 34, No. 7, 43, 1964), and its purpose is a detailed analysis of the ionic component of a plasma produced by a conical source . and traveling in a magnetic field. The experimental setup for studying the interaction between plasmoids and a transverse magnetic

1. 6728-65 ACCESSION NR: AP4044877

field was the same as used by the authors before, and the mass analyzer employed was that described by A. A. Kalmy*kov et al (pribory* i tekhn. eksp. No. 5, 142, 1963). The results indicate that the ability of the plasma ions to penetrate through the transverse magnetic field increases with increasing m/Z (m -- ion mass. 2 -- charge) and with decreasing ion energy. The plasma captured by the magnetic field contains much more hydrogen than the plasma ejected from the source. With increasing intensity of the magnetic field, the energy spectrum of the hydrogen ions of the plasma passing through the field shifts towards lower energies, whereas the energy spectrum of the protons of a plasma moving along the magnetic field shifts towards the higher energies. The results suggest that the density of the leading front of the plasma, where the higher-energy hydrogen ions are situated, is not high enough so that when the plasma enters the transverse magnetic field the front part of the plasmoid becomes detached. There is no broadening of the plasma pulses after passing through the magnetic field, and the perpendicu-

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law ion pologity is very	rapidly transformed into	longitudinal	
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ASSOCIATION: Fiziko-tek	hnicheskiy institut Akade ute, Academy of Sciences,	mii nauk UkrSSR	
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SUBMITTED: 21Feb64		encl: 00	
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AUTHOR: Demidenko, I. I. / Lomino, N.S. / Padalka, V.G. / Safronov, B.G. /Sinel'nikov, K.D.

TITLE: On possible development of instabilities in a plasma captured by a transverse magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.1, 1965, 154-156

TOPIC TAGS: plasma, plasma instability, transverse magnetic field, longitudinal magnetic field

ABSTRACT: The development of instabilities in plasma bursts trapped by a transverse magnetic field and traveling parallel to it were investigated. The apparatus and the peculiarities of the capture and propagation of the plasma bursts have been previously described by four of the present authors (ZhTF 34,1183,1964). In the present experiments the plasma bursts passed through a 1.5 cm diameter circular aperture in a screen located 30 cm from the point of capture and were observed at various distances from the screen with a "plasmascope". When the screen was of dielectric material, or when it was of metal but floating, a tongue emerged from the more dense side of the plasma, grew, and reached the wall of the chamber after the plas-

Card 1/2

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ACCESSION NR: AP5003252

the flurst had traveled some 60 cm from the screen. This instability is assumed to be of the Rayleigh-Raylor type and due to the rotation of the plasma, its inhomogenety, and the presence within it of a net negative charge. When the screen was of metal and grounded, the development of this instability was almost entirely suppressed. Experiments were also performed with a screen containing a 4 mm wide slot instead of a circular aperture. In this case the instability did not develop. The failure of flute instability to develop in the plasma sheets that passed through the slot is discussed briefly. Orig.art.has: 4 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Ukrasa, Kher'kov (Physicotechnical Institute, AN Ukrasa)

SUBMITTED: 14 Augi4

ENCL: 90

SUB CODE: ME,EM

NR REIF SOV: 004

OTHER: 005

Card 2/2

E:PF(n)-2/EPA(w)-2/EWT(1)/EWO(m) P1-4/Po-4/Pz-6/Pab-10 IJP(e) AT ACCESSION NR: AP5012046 UR/0057/65/035/005/0823/0826 AUTHOR: Demidenko, I. I.; Lomino, M.S.; Padalka, V.G.; Safronov, B.G.; Sinel 'nikov, K.D TITLE: Investigation of some properties of a plasma captured by a transverse magnetic field 50 SOURCE: Thurnal teldinicheskoy fiziki, v. 35, no. 5, 1965, 823-826 TOFIC TAGS: plusma trupping, plasma magnetic field, plasma polarization, plasma injection. ABSTRACT: The authors have previously found (ZhTF, 34, 43, 1964; DAN SSR, 157, 1335, 1964) that a portion of the plasma injected into a transverse magnetic field is captured by the field and moves parallel to it. They have continued their inves: igation of this phenomenon (which is not understood) with an apparatus similar to that previously employed, but larger. In the present apparatus the longitudinal magnetic field is maintained in a 12 cm diameter, 300 cm long drift tube; with the plasma transversely injected at the center of the drift tube, the motion of the captured plasma could be followed for 120 cm. The polarization of the captured plasma was observed with probes. After a decrease of 20 to 50% in Card 1/2

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he first 80 or 40 cm, the po	larization decreased only ve	ry glowly with distance	
ros the injection point. The	e expected drift of the capt	ured plasma in the	
rossed fields (the electric	field due to polarization an	d the applied magnetic	
rield) was observed with the (L.I.Yelizarov and J.Y. Warin	ov Nucl. Fis. Suppl. 2.6	99. 1962). The effect of	2
horting out the plasme wiler	ization with a copper disk w	as investigated; this was	∓1. †
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UR/0000/65/000/000/0021/0026 ACC NR. AT6020398 SOURCE CODE: AUTHOR: Demidenko, I. I.; Lomino, N. S.; Padalka, V. C.; Safronov, B. G.; Sinel'nikov, K. D. ORG: none TITLE: Possible occurrence of instabilities in a plasma captured by a transverse magnetic field 7/ SOURCE: AN UkrSSR. Issledovaniye plazmennykh sgustkov (Study of plasma clusters). Kiev, Naukova dumka, 1965, 21-26 TOPIC TAGS: plasma containment, plasma instability, plasmoid, plasma injection ABSTRACT: This is a continuation of earlier investigations of plasma captured by a transverse magnetic field (ZhTF, 1964, v. 34, 1183 and elsewhere). Although the conditions in the earlier investigations were such that no instabilities could develop in the plasma, the authors show that such instabilities can develop after the plasmoid passes through a diaphragm which is installed at a sufficiently large distance from the point of injection of the plasma in the magnetic field. At the large distance from the injection point, the plasmoid has a sufficiently large ratio of longitudinal energy to transverse energy, and an appreciable density gradient. The instability begins to develop in the region of maximum plasma density, and the inhomogeneity of the density over the cross section of the plasmoid stimulates the development of the instability. Arguments are presented in favor of classifying this as a 1/2

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yleigh-Taylor type of instability which develops in the homogeneous magnetic field a result of plasma rotation. A similar instability was observed when the dielectic diaphragm was replaced by a metallic but ungrounded diaphragm. When the metal- ac diaphragm was grounded, practically no instability developed. Certain qualitative replanations of the phenomena are presented. Orig. art. has: 4 figures.
UB CODE: 20/ SUBM DATE: 11Nov65/ ORIG REF: 005/ OTH REF: 005
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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000510020007-6"

ACC NRI

APG033412

SOURCE CODE: UR/0057/66/036/010/1779/1786

AUTHOR: Demidenko, I.I.; Lomino, N.S.; Padalka, V.G.

ORG: none

TITLE: Characteristics of the interaction of a fast plasma with a transverse magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1779-1786

TOPIC TAGS: plasma gun, plasma injection, plasma magnetic field, transverse magnetic field, magnetic trap

ABSTRACT: The authors investigated the entrapment of hydrogen plasma bursts from a 17.5 cm long 7.2 cm diameter coaxial plasma gun powered by the 15 kV discharge of a 15 microfarad capacitor by a transverse magnetic field of strength up to 0.2 tesla. The plasmas travelled from the gun to the transverse magnetic field through an 80 cm long tube of glass or metal. The behavior of the plasmas was observed with both electric and magnetic probes and with 4 mm microwaves, and the composition of the plasma that traversed the magnetic field was recorded with a parabola type (Thompson) mass spectrometer. The plasmas from the coaxial gun had two components: a fast component with a velocity of 7×10^5 m/sec and a relatively low density, and a slow component with a velocity of 1.5×10^5 m/sec and a density exceeding 7×10^{13} cm⁻³. The fast component was entrapped by very weak fields (0.01-0.02 tesla), and it is

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ACC NR: AP6033412

concluded that it would be very difficult to inject these fast plasmas transversely into a magnetic trap because they would become entrapped in the fringe field. When the drift tube was of glass the slow plasmas were also rather rapidly entrapped and did not reach the region of strong magnetic field. When the drift tube was of metal, however, the slow plasma component tended to penetrate the transverse magnetic field and could be entrapped in a region of high field strength. The difference between the behaviors of the plasmas in the glass and metal drift tubes is ascribed to short circuiting of the plasma polarization by the walls of the metal drift tube and consequent deceleration of the plasma. It is concluded that for transverse injection of plasma into a magnetic trap one should select an injector that produces slow dense plasmas. The authors thank K.D.Sinel'nikov and B.G.Safronov for valuable discussions. Orig.art. has: 9 figures.

SUB CODE: 20 SUBM DATE: 05Jul65 ORIG.REF: 009 OTH REF: 002

Card 2/2

ACC, NRI APG033417

SOURCE CODE: UR/0057/66/036/010/1819/1825

AUTHOR: Demidenko, I.I.; Lomino, N.S.; Padalka, V.G.; Rutkevich, B.N.; Sinel nikov, K.D.

ORG: none

TITLE: Investigation of the motion of a plasma burst in a nonuniform transverse magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1819-1825

TOPIC TAGS: hydrogen plasma, plasma magnetic field, transverse magnetic field, nonhomogeneous magnetic field, plasma injection

ABSTRACT: This paper begins with a brief theoretical discussion in the drift approximation of the adiabatic motion of a plasma in a nonuniform transverse magnetic field. It is shown that the plasma is decelerated on entering a region of high transverse magnetic field strength and accelerated on leaving such a region, owing to the transformation of kinetic energy of forward motion into kinetic energy of rotation and vice versa. If the magnetic field becomes strong enough the plasma can be reflected. The authors tested their theoretical conclusions by firing plasmas from a conical plasma gun through an 80 cm long 7 cm diameter drift tube across a transverse magnetic field of up to 0.2Tproduced by a solenoid in a 12 cm diameter transverse tube. The magnetic field gradient was adjusted with the aid of soft iron shields within the plasma drift tube; these shields were covered with glass tubes to prevent the plasma from coming

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ACC NR: AP6033417

in contact with them. The plasma gun was powered by the 15 kV discharge of a 15 microfarad capacitor and produced plasmas containing 70% hydrogen ions with densities of about 10^{14} cm⁻³ and velocities of about 2.5 x 10^4 m/sec. The theoretical linear relation between the square of the plasma velocity and the strength of the transverse magnetic field was confirmed by the experiments. Plasmas with densities as low as 10^{12} cm⁻³ were obtained with the aid of an iris mounted in the drift tube. These plasmas did not conform to the adiabatic theory, but were to a considerable extent entrapped in the transverse magnetic field, particularly when the field gradient was high. It is concluded that low density hydrogen plasmas can be entrapped by a transverse magnetic field of considerable strength. The authors thank B.G.Safronov and N.A.Khizhnyak for valuable discussions. Orig. art. has: 10 formulas and 6 figures.

SUB CODE: 20 SUBM DATE: 110ct65 ORIG.REF: 006 OTH REF: 004

Card 2/2

 DEMIDOV, I.N.; BONDAREV, E.

High-speed heads equipped with cutters having hard alloys bits used without regrinding. Avt. prom. 29 no.8:39
Ag '63. (MIRA 16:11)

1. Minskiy avtomebil'nyy zavod.

DEMIDENKO, I. Ya.

37464. Kartina Dna Glaz Pri Sesticheskikh Trotaessach i Korugichsekom Sepsise U Lo hadey i Eye Znacheniye V. Flinicheskoy Pemietike. Uchen. Zapiski Viteb. Vet. In-ta, t. IX, 1949, s. 18-32. — Bioliogr: 22 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

DEMIDENKO, I. Ya.

37465. Ob U Anomaliyakh Kartiny Dma Glas Zhivotnykh i Ikh Progskhowhdenii. Uchen. Zapiski Viteb. Vet. In-ta, t. IX, 1949, s. 33-38... Bitliogr: 10 Nasv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

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DEMIDENKO, K.D.

Effect of exposure to sunrays and laundering on the creasing characteristics of half-woolen dress fabrics. Izv. vys. ucheb. zav.; tekh. teks. prom. no.6:23-27 '65.

(MIRA 19:1)

1. Belorusskiy institut narodnogo khozyaystva imeni V.V. Kuybysheva. Submitted July 3, 1965.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000510020007-6"

DEMIDENKO, L.

Training of sewers on a conveyor. Prof.-tekh.obr. 22 no.4:11-12
Ap *65. (MIRA 18:5)

1. Starshiy master professional no-tekhnicheskogo uchilishcha No.28 g. Novosibirska.

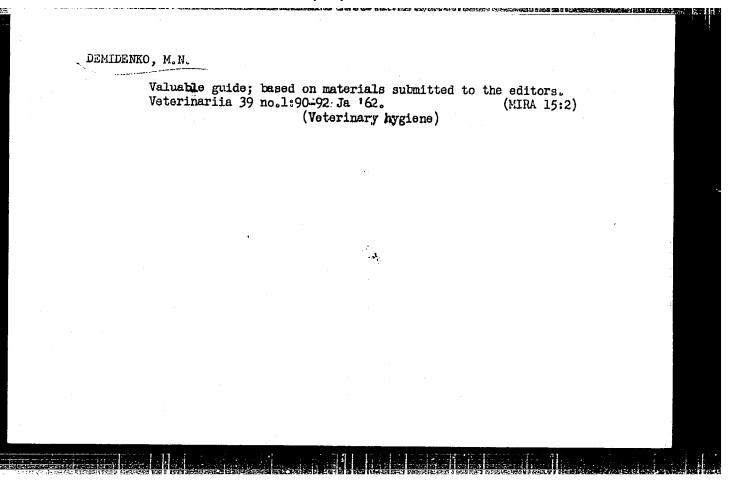
DEMICHEVA, K.N., nauchnyy sotrudnik Use of cortisone in partial penetrating corneal transplantation. (MIRA 14:3) Oft. zhur. 16 no.2:86-92 161. l. Iz Ukrainskogo nauchno-issledovatel skogo ekperimental nogo instituta glaznykh bolezney i tkanevoy terapii imeni akademika V.P.Filatova (direktor - prof. N.A.Puchkovskaya).

(CORNEA_-TRANSPLANTATION) (CORTISONE)

DEMIDENKO, H. I.

Fourth Conference on Plant Phylogeny at the All-Union Botanical Society. Bot. whur. 42 no.10:1565-1570 0 157. (MIRA 10:10)

1. Botanicheskiy institut im. V.L.Komarenko AN SSSR, Leningrad. (Phylogeny (Botany))



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ACCESSION NR: ARSO18565

UR/0299/65/000/014/Boli6/Boli6

615.779.9:576.8 SOURCE: Ref. wh. Biologiya, Svodnyy tom, Abs. 148342

AUTHOR: Ponizovkina,

TITLE:

Sensitivity of dysentery baddlli to various antibiotics

CITED SOURCE: Sb. nauchn. tr. Kafedry fak. Khirurgii AGMI i vrachey Kazakhsk. zh. d., vyp. 2, 1964, 253-255

TOPIC TAGS: antibiotic, bacteria, atreptomycin, aureomycin, chloromycetin, bacterial disease, inteatinal disease

TRANSLATION: A study was made of 226 strains of dysentery bacilli, of which 137 were isolated from patients with a severe form of dysentery, 19 from patients with an aggravated chronic form, and 70 from bacilli carriers. The strains were isolated in the years 1959-1960. The sensitivity of the cultures to antibiotics was determined by a disk method. The dysentery cultures isolated from patients and bacilli carriers were most sensitive to chiloromycetin, then to aureomycin, synthomycin, and finally, to streptomycin. The most

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nore ased	wers S. sonnei bacilli and the most resistant were the 1 type C bacilli. Resistante of the dysentery bacilli sharply with antibiotic therapy. I. Euyanovskaya.	0	
VB GODE:	Ls ENCL: OU		

43123 S/181/62/004/011/023/049 B125/B186

24.7800 AUTHORS:

Votinov, M. P., and Demidenko, N. I.

TITLE:

Peculiarities of electron paramagnetic resonance spectra in titanium-containing ferroelectrics

PERIODICAL: Fizika tverdogo tela, v. 4, no. 11, 1962, 3211 - 3214

TEXT: It is shown that ferroelectrics of the types BaTiO, BaTiO, (89.9%) (2rO2, MgO), and SrTiO, contain paramagnetic particles with various spin-lattice relaxation times whose existence is said to depend on the composition of the original material and the annealing conditions. The effect of such particles on dielectric properties was studied by V. V. Antuf'yev et al. (FTT, 3, 286, 1961; Nauchno-tekhnicheskiy informatsionnyy byulleten' LPI im. M. I. Kalinina 1 (Radiofizika), 100, 1961). In the present paper, measurements of e.p.r. absorption spectra at various temperatures are reported. The width of the absorption lines of such paramagnetic particles incorporated in the crystalline phase of ferroelectrics may be used as indicator for structural transformations, i. e. for transitions from the ferroelectric to the nonferroelectric state. At -195°C, Card 1/3

Peculiarities of electron...

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the spectrum of BaTiO consisted of two superimposed components: A which is assumed to be Ti and B which might be an impurity ion. In the temperature range from -100°C to +280°C only a single symmetrical line of B could be observed. At 300°C, and even above 400°C, six weak narrow lines superimposed on the line B could be resolved. The e.p.r. spectrum of BaTiO + (ZrO + MgO) showed a third component C (g = 1.951) at a temperature below -50°C. Its A and B lines were less distinct. Above 430°C also in this case six narrow superimposed lines could be resolved. The phase-spectrum of SrTiO showed 7 lines at -195°C of varying resolutions. Above -60°C only the lines of the components B and D were left. The low-intensity lines α , β , γ , δ , symmetrically arranged with respect to the center of the spectrum, obviously represent the hyperfine structure of the spectrum of a particle with a nuclear spin of 3/2, showing very strong spin-corresponds with an individual particle. The particle B is obviously not contained in the SrTiO crystal lattice while the particle D is obviously observed in all three ferroelectrics. There are 2 figures.

Peculiarities of electron...

S/181/62/004/011/023/049 B125/B186

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute imeni M. I. Kalinin)

SUBMITTED:

June 22, 1962

Card 3/3

CIA-RDP86-00513R000510020007-6 "APPROVED FOR RELEASE: 03/13/2001 5/181/62/004/011/033/049 B108/B102 Votinov, M. P., and Demidenko, N. I. Change with temperature of the width of the spectrum of electron paramagnetic resonance in titanium - oxygen systems 24.7900 AUTHORS: Fizika tverdogo tela, v. 4, no. 11, 1962, 3277 - 3278 TEXT: The temperature dependence of electron paramagnetic resonance of TITLE the Ti 3+ ions in TiOx (1.5 < x < 2.0) was recorded down to nitrogen temperature (77%). Similar tests have been made before (V. V. Antuf'yev et Bl. PERIODICAL: ture ([[A]. Similar tests have been made before (v. v. Anver Jo. v. FTT, 4, 1496, 1962). The spectra were studied on a highly sensitive encourage of with an highly sensitive encourage of the large of the l spectrometer with an h.f.-modulated magnetic field and with differential recording of the absorption lines. The width of the spectra at 770K varied recording of the ausorption lines. The width of the spectra at 11 h between 40 and 70 oersted for different specimens. The temperature dependence of the line width is shown by curves in the figure, each numbered to indicate the value of X. The high temperature at which numbered to indicate the value of x. The high temperature at which (50°C) electron paramagnetic resonance of TiO1.874 is associated with the fact that Ti 3+ is in a low-symmetry crystal lattice Card 1/3

VOTINOV, V.P.; DEMIDENKO, N.I.

Characteristics of the spectra of electron paramagnetic resonance in ferroelectric ceramics containing titanium. Fiz. tver. tela 4 no.11:3211-3214 N '62. (MIRA 15:12)

1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina.

(Ferroelectric substances)
(Titanium)
(Paramagnetic resonance and relaxation)

NEWSCHOOL STREET, STRE

VOTINOV, M.P.; DEMIDENKO, N.I.

Temperature variation in the width of the spectrum of electron paramagnetic resonance in the system titanium - oxygen TiO_x(x = 1.5 - 2.0). Fiz. tver. tela 4 no.11:3277-3278 N.162. (MIRA 15:12)

1. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina.

(Paramagnetic resonance and relaxation)
(Excitons)
(Titanium oxide crystals)

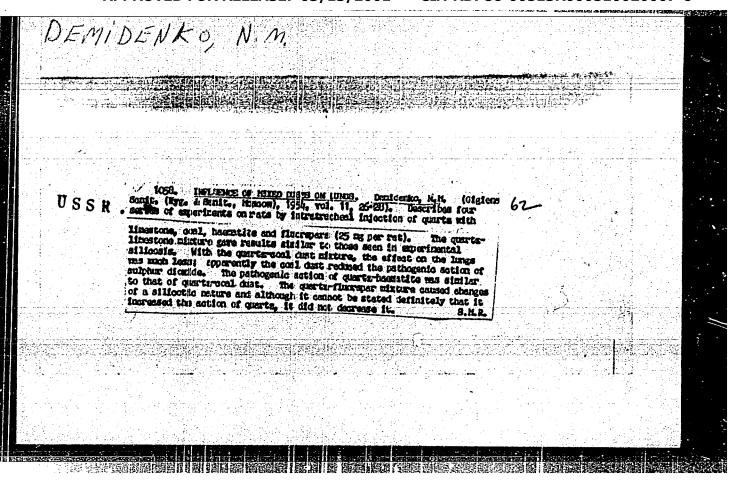
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DEMIDENKO, N. M.

"Data on the Hygienic Characteristics of Industrial Dusts of Mixed Composition (Experimental Investigation)." Cand Med Sci, Moscow Medical Inst, Moscow, 1953. (RZhKhim, No 23, Dec 54)

Survey of Scientific and Techincal Dissertations Defended at Ussr Higher Educational Institutions (12)

SO: Sum. No. 556, 21, Jun 55



DEMIDENKO, N.M., kandidat meditsinskikh nauk

Hydienic characteristics of industrial dust of heterogeneous particles. Bor'ba s sil. 2:333-342 '55. (MIRA 9:5)

1. Moskovskiy meditainskiy institut. (IUNGS--DUST DISKASES) ;(DUST)

STATE OF THE STATE

DEMIDENKO, N. M.; LYUBETSKIY, Kh. A.; HASYROVA, V. Ye.; SMETANIN, N. I.; SHRAYBET, L. B.; ARNOL'DI, I. A.; AKHMEROVA, A. A.; VENGERSAKYA, Kh. Ya.

"Problems of toxicology of certain new insectofungicides used in cotton growing."

report submitted at the 13th All-Union Congress of Hygienists, Epidemologists and Infectionists, 1959.

BABADZHANOV, S.N.; DEMIDENKO, N.M.

Session of the Uzbek Republic Scientific Society of Hygienists in 1959. Med. zhur. Uzb. no.6:73-75 Je '60. (MIRA 15:2) (UZBEKISTAN_PUBLIC HEALTH)

DEMIDENKO, N.M.; PLAKHOVA, L.G.; TEPLYAKOVA, Z.M.

Working conditions and preventive measures during the application of new defoliants and desiccants to cotton. Med. zhur. Uzb. no. 9:15-18 S '60. (MIRA 13:10)

1. Iz kafedr gigiyeny truda (zav. - dotsent N.I. Smetanin) i obshchey khimii (zav. - dotsent E.Kh. Timbekov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.

(AGRICULTURAL CHEMICALS—TOXICOLOGY)

(COTTON GROWING—HYGIENIC ASPECTS)

Meetings of the Uzbek Republican Hygienic Society during 1960.

Med. zhur. Uzb. no.7:79-80 J1 '61. (MIRA 15:1)

(UZBEKISTAN_PUBLIC HEALTH SOCIETIES)

DEMIDENKO, N.M., dotsent

Industrial hygiene in cotton defoliation with calcium chloride chlorate. Med. zhur. Uzb. no.7:41-43 Jl '63.

(MIRA 17:2)

1. Iz kafedry gigiyeny truda (zav. - dotsent N.I. Smetanin)
Tashkentskogo meditsinskogo instituta.

ALESHIN, B.V.; DEMIDENKO, N. S.

Effect of 6-methylthiouracil on cells of the anterior pituitary.
Arkh anat., Moskra 29 no. 3:82-95 May-June 1952. (CLML 22:5)

1. Of the Department of Histophysiology (Head -- Prof. B. V. Aleshin).
Ukrainian Institute of Experimental Endocrinology (Director -- Prof. Z. N. Dinershteyn).

ALESHIE, B.V.; DEMIDERKO, N.S.

Effect of 6-methylthiouracil on the thyreotropic function of the pituitary. Arkh.anat.gist.i embr. 30 no.5:31-42 S-0 '53.

(MLRA 6:12)

1. Is otdela gistofiziologii (saveduyushchiy - professor B.V.Aleshin) Ukrainskogo instituta eksperimental'noy endokrinologii (direktor professor %, M. Dinershteyn).

(Pituitary body) (Thiouracil)

DEMIDENKO, N. S.

"Conditions and Factors Which Influence the Proliferation of Thyroid Epithelium (The Importance of the Thyroid Hormone in the Proliferation of the Thyroid Epithelium and in Goiter Pathogenesis)." Cand Biol Sci, Khar'kov State U, Khar'kov, 1954. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

AND DESCRIPTION OF THE PROPERTY OF THE PROPERT Country T Catogory= : Human and Animal Phsylology, Physical Factors Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8574 Author Aleshin B.V.; Demidenko N.S. Institut. Title : The Importance of the State of the Brain in the Up-take of Radioactive Indine by the Thyroid Gland. Orig. Pub. : Med. radiologiya, 1957, 2, No. 3, 77--82 Abstract Silver discs measuring 8X4X0.2 mm were applied symmetrically to the central zones of the cerebral cortex in rabbits. For one month the animals were injected subcutaneously with Il31 having an activity of one microcurie; periodic determinations of the activity of the thyroid gland were made every three days. Among males the intensity of Il31 up-take by the gland increased considerably and was characterized by individual curves of a single type. Among females the effect was considerably less pronounced and great individual differences were noted in the individual curves. When 6-methylthiouracil (50 mg/kg) was administered internally Card: |

Country : USSR Catogory= : Human and Animal Physiology, Physical Factors Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8574 author Institut. Titlc Orig. Pub. : to the precentral zones. The combination of ganglionectomy and injection of methylthiouracil Abstract had an effect on up-take dynamics which was approximately the same as that of injecting methylthiouracil when discs were applied to the precentral zones. Frolonged stimulation of the superior cervical ganglis by applying silver rings led to a long, slow rise in the up-take curve, while such stimulation in combination with the injection of methylthiouracil led to a sudden and lasting elevation of the curve. 3/4 Card:

ALESHIN, B.V.; DEMIDENKO, N.S.

Reaction of the thyroid gland to 6-methylthiouracil as compared with its reaction to the thyrotropic hormone. Sbor. nauch. trud. Ukr. nauch.-issl. inst. eksper. endok. 15:140-164 '59.

(MIRA 14:11)

(THYROID GLAND) (URACIL) (PITUITARY BODY)

was an electron or account to the property of the property of

BINIASHVILI, R.M.; DIMIDISKO, N.S.

High-quality portable lamps for miners. Bezop. truda v prom. 4 no.11:36 M '60. (MIRA 13:11)

l. Machal'nik ventilyatsii shakhty im. Stalina tresta Voroshilovugol' (for Biniashvili).

(Electric lamps, Portable)

DEMIDENKO, N. S., Cand Bio Sci -- "Effect of certain reactions applied to the nervous system," the regeneration reactions of the thyroid parenchyma. (Experim studies).

Khar'kov, 1961. (Min of Higher and Sec SpecEd Ukssr.

Khar'kov Order of Labor Red Banner State U im A. M. Gor'kiy)

(KL, 8-61, 236)

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ALESHIN, B. V.; DEMIDIENKO, N. S.; MAMINA, V. V.; SIDORENKO, E. V.

Significance of higher parts of the central nervous system in the pathogenesis of goiter disease. Activ. nerv. sup. 3 no.3:289-304 61.

1. Ukrainskiy institut eksperimental'noy endokrinologii i Khar'kovskiy meditsinskiy institut, Khar'kov, SSSR.

(CENTRAL NERVOUS SYSTEM physiol)
(GOITER etiol)

DEMIDENKO, N.S.

Reaction of the adrenal cortex and lymphoid organs to extreme stimulation under conditions of cerebral cortex excitation.

Trudy Ukr.nauch.-issl.inst.eksper.endok. 18:215-227 '61.

(MIRA 16:1)

1. Iz otdela gistofiziologii Ukrainskogo instituta eksperimen-

1. Iz otdela gistoriziologii okrainskogo imbuluda diputationogii.
(ADRENAL CORTEX) (CEREBRAL CORTEX) (LYMPHOID TISSUE)

Kit for the	blaster,	Bezop.true	da v prom.	6 no.4:33	Ap '62. (MIRA 15:5)	
	(131	a stingEqu	ipment and	supplies)	(MIRA 15:5)	
	:					

KRUPSEIY, M.K. [Krups'kyi, M.K.], kand.sel'skokhozyaystvennykh nauk;

DEMIDENEO, O.Ya. [Desidlyenko, O.Ik.], starshiy nauchny; sotradnik

(Khar'kov)

Salinization of irrigation canals. Nauka i zhyttia 8 no.2:

32-33 F '58.

(Irrigation canals and flumes)

1. Predsedatel' kolkhoza imeni Stalina Mezhevskogo rayona. Dnepropetrovskoy oblasti. (Mezhevaya DistrictFarmhouses)

DEMIDENKO, P., polkovnik, voyennyy letchik pervogo klassa

The leading squadron increases its achievements. Av. i kosm.
no.2:14-17 F '66. (MIRA 19:1)

DEMIDENKO, P.M.

USSR/Cultivated Plants - Grains

M-4

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1542

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Author : P.M. Demidenko

Inst : Not Given

Title : Methods and Norms of Sowing Buckwheat

Orig Pub: Tr. Dnepropetr. s.kh.. in-t, 1956, 6, 55-60

Abstract : In the steppe zone of the Ukrainian SSR, sowing in wide fur-

rows (the interstitial width being 45 cm with a sowing norm of 45 kilograms per hectare) produced the highest yield of buckwheat (13.2 centners per hectare). A sharp decrease of productivity (6.05 centners per hectare) was shown when the sowing norm was 90 kb/h with uniform-row sowing. The wide furrow sowing greatly improves the quality of the buckwheat, raising the absolute weight of its grain and reducing its

raising the absolute weight of its grain and reducing its

scaliness.

Card : 1/1

DEMIDENKO, P., kand.sel'skokhoryaystvennykh nauk

Our experience in growing mallows. Hauka i pered. op. v
sel'khoz. 8 no.9:19 S '58. (MIRA 11:10)

1. Predsedatel' kolkhoza imeni Stalina, Mezhavskogo rayona,
Dnepropetrovskoy oblasti. (Mallow)

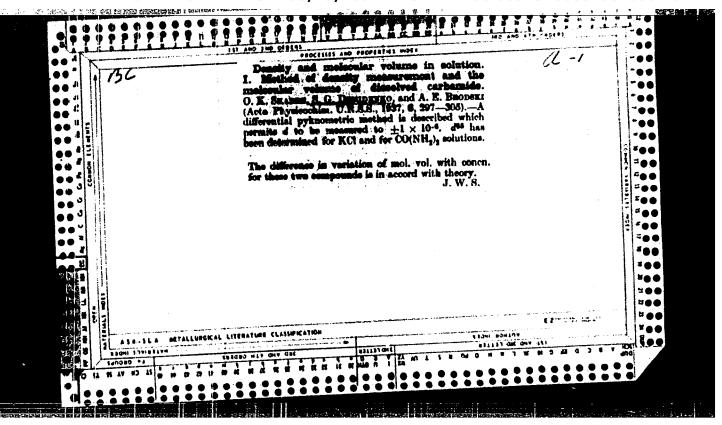
DEMIDENKO, P.M.

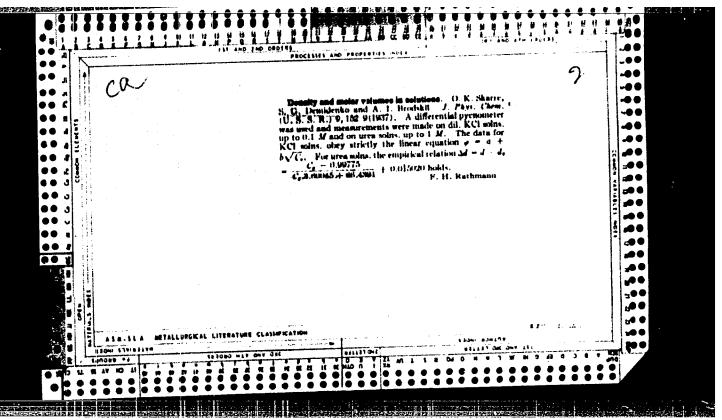
For high sunflower yields. Zemledelie 7 no.3:75-76 Mr '59.

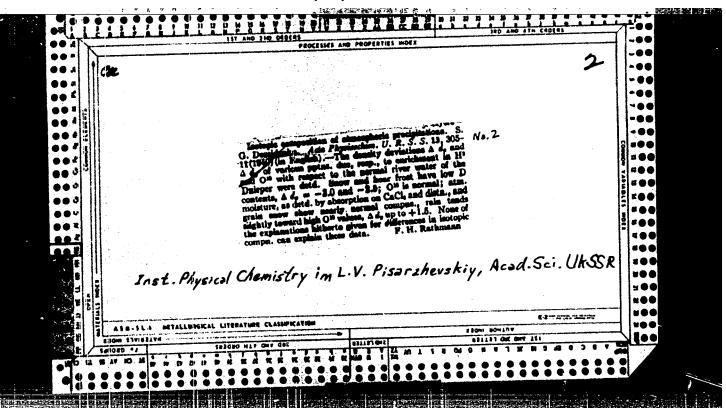
(MIRA 12:4)

1. Predsedatel' kolkhoza "Rossiya," Mezhevskogo rayona, Dnepropetrovskoy oblasti.

(Sunflowers)







DEVISION, 3. G.

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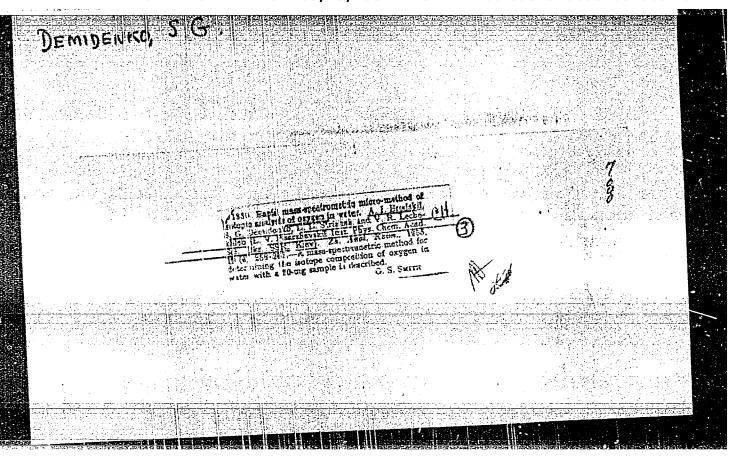
USSR/Chemistry - Amalysis, Titration . Apr 48
Chemistry - Aparatus, For Analytical Studies

"Construction of a Semimioro Gas Analyzer," S. G.
Demidenko, B. A. Geller, Ukrainian Physicochem Inst,
1 p"

"Zavod Iab" Vol XIV, No 4 p. 50/

Diagram shows absorption-type apparatus for volumetric analysis. Volume of test savole is 1 - 2 cc. Due to large surface and small volume, absorption proceeds fairly repidly, e.g., oxygen from air by pyrogallol takes 4-5 minutes, accuracy being ± 0.25.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000510020007-6



5(4)

AUTHORS: Strizhak, L. L., Demidenko, S. G., SOV/20-124-5-36/62

Brodskiy, A. I., Corresponding Member, AS USSR

TITLE:

The Isotopic Exchange of Nitrogen Between Aminocompounds and Liquid Ammonia (Izotopnyy obmen azota mezhdu aminosoyedineni-

yami i zhidkim ammiakom)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 1089-1092

(USSR)

ABSTRACT:

The present paper contains a report about new results obtained by a closer investigation of the kinetics of exchange and its oxygen catalysis. These new data fully agree with the exchange mechanism already previously assumed. The experiments were carried out in thick-walled ampoules made from molybdenum glass and having an inner diameter of 2-3 mm. Experiments are described in short. A table shows the results obtained for acetamine and benzamine. A further table and 2 diagrams show (though less accurately) the results obtained for other substances. Short reference is made to measurements previously carried out. According to exact measurements liquid ammonic

carried out. According to exact measurements, liquid ammonia exchanges no nitrogen with the nitro group, with the nitrogen of the pyridine ring and (which is the most essential fact in

Card 1/3

The Isotopic Exchange of Nitrogen Between Amino-compounds and Liquid Ammonia

SOV/20-124-5-36/62

the present case) with the amino group if it is immediately connected with the carbon of the aromatic nucleus or alkyl. Exchange in the amino group takes place during the exchange of highly negative substituents (such as the nitro- or sulfogroups) into the nucleus. Several details are mentioned. A relatively rapid exchange occurs in substances in which the amino group is immediately connected with the highly polarized carbon of the carbonyl groups or with groups analogous to the latter. Exchange is considerably accelerated by the presence of an ammonium ion. All characteristic features of nitrogen exchange in amino-compounds investigated in this paper agree fully with the bimolecular mechanism (SN2) of the nucleophile substitution of the amino group of the substance to the amino-group of ammonia with transfer of the proton from the last-mentioned group to the amino-group to be split off. There are 2 figures, 2 tables, and 5 references, 3 of which are Soviet,

Card 2/3

The Isotopic Exchange of Nitrogen Between Amino-compounds and Liquid Ammonia

SOV/20-124-5-36/62

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Pisarzhevskiy of the Academy of Sciences, UkrSSR)

SUBMITTED:

November 3, 1958

Card 3/3

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(Mass spectrometry--Equipment and supplies)

TOTAL SECTION OF THE PROPERTY OF THE PROPERTY

BURKSER, E.S. [Burkser, IE.S.]; ALEKSEYEVA, Ye.N. [Alekseieva, K.M.];

VETSHTEYN, V.Ye.; GOL'DENFEL'D, I.V.; DAVYDYUK, L.A. [Davydyuk, L.O.];

DEMIDENKO, S.G. [Demydenko, S.H.]; YELISEYEVA, G.D. [IEliseieva, H.D.];

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1. Of the Department of Nervous Diseases (Head--Honored Worker in Science Prof.S.W.Davidenkov, Active Member of the Academy of Medical Sciences USSR) and of the Department of Physiotherapy (Head---Prof.N.W.Mishchuk), Leningrad Institute for the Advanced Training of Physicians imeni S.M.Kirov.

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(MOVEMENT DISCHOERS) (BRAIN-DISEASES)